

Effective date: August 1980

Helitrim® Model 58 trimming potentiometers provide:

- ## SPECIFICATIONS

Ambient temperature range, °C -65 to 150
Resistance element cermet
Adjustment turns, nominal 22
Sealing meets immersion test of MIL-R-22097
Tempco ± 100 ppm/°C*
*Guaranteed maximum over the ambient temperature range of -65°
to 150°C (100Ω to 2 megΩ)

Range of std. resistance values, ohms	10 to 2M
Standard resistance tolerance	.50Ω thru 2MΩ, ±10% other values, ±20%
Input voltage, maximum	.300V DC/RMS but not to exceed power rating.
Slider current, maximum	100 mA or within power rating, whichever is less.
Power rating, watts	1.0 at 85°C, derating to 0 at 150°C
End resistance, maximum	2Ω
Actual electrical travel, turns	.22 ±5
Dielectric strength	900V RMS
Insulation resistance	1,000MΩ
Resolution	essentially infinite
Contact resistance variation	.3Ω or 3% of R _T , whichever is greater.

10	100	1K	10K	100K	1M
20	200	2K	20K	200K	2M
—	—	—	25K	250K	—
50	500	5K	50K	500K	—

(Model 58 trimming potentiometers meet or exceed the following environmental requirements of MIL-R-22097.)

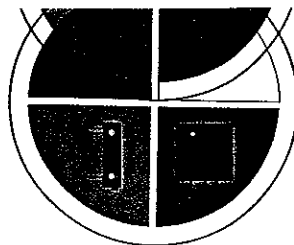
Environment (Para. No.)	Severity
Thermal shock (4.6.8)	-65° to 125°C
Moisture resistance (4.6.10)	10 days at 80-98% RH
Shock (4.6.11)	.100 g's
Vibration (4.6.12)	.20 g's; 10 to 2,000 Hz
Salt spray (4.6.13)	.96 hrs.
Effects of soldering (4.6.14)	.3 sec. at 350°C
Life, at 0.75 watt (4.6.15)	.1,000 hrs. at 85°C
Low temp. operation (4.6.16)	-55°C
High temp. exposure (4.6.17)	.250 hrs. at 150°C
Rotational life (4.6.18)	.200 cycles
Solderability (4.6.20)	.5 sec. at 230°C
Immersion (4.6.21)	.85°C water
Dielectric strength (4.6.5.2)	.70,000 ft. (21.336m); 350V

Example:

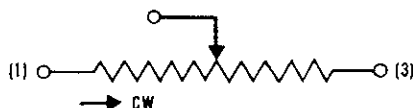
	<u>58</u>	<u>PR10</u>	<u>K</u>
Model	└─┘	└─┘	└─┘
			Resistance Value

Specifications subject to change without notice.

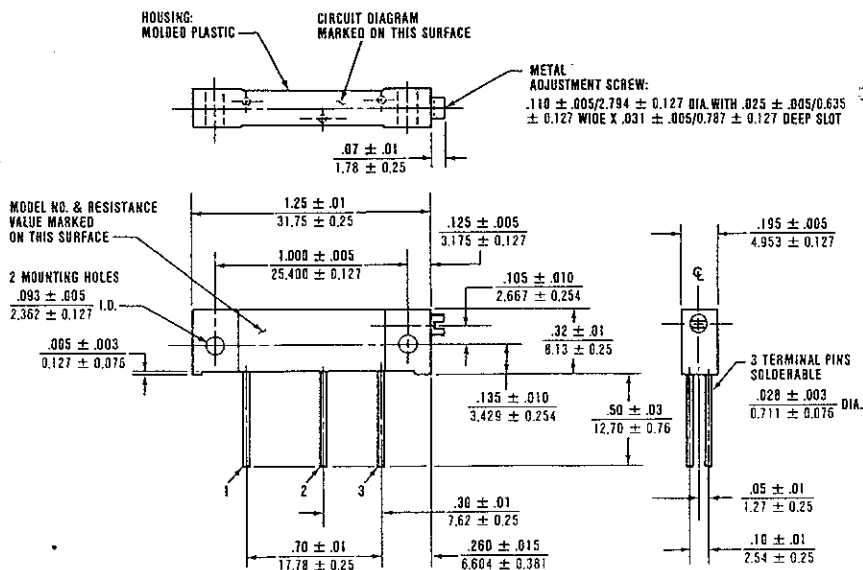
OUTLINE DRAWINGS



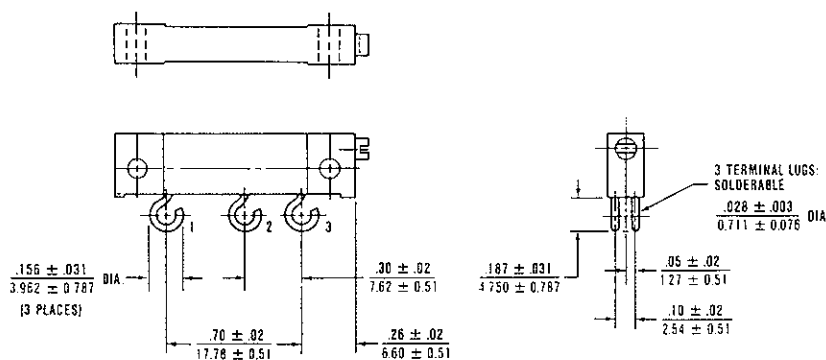
CIRCUIT DIAGRAM



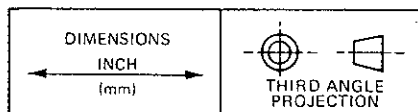
Model 58P



Model 58S



MODEL 58P DIMENSIONS APPLICABLE TO ALL MODELS EXCEPT AS NOTED.



Tolerances unless otherwise specified:
 $\pm .005$ inch and ± 0.127 mm
 angular $\pm 2^\circ$

Metric equivalents, based upon 1 inch = 25.4 mm are rounded to the same number of decimal places as in the original English units and are provided for general information only.